Daniele Rosa

US and Italian Citizen. Fluent in English and Italian. Intermediate/colloquial knowledge of Spanish.

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Professional Experience:

2008-2014: Graduate student researcher and instructor at Univ. of California, Berkeley, USA. Climate research. Advisor: Prof. William (Bill) Collins. Climate research: global atmospheric tracer transport (standard and multi-scale methods), rainfall data analysis.
2006-2008: Teacher assistant (full responsibility) at Humboldt State Univ., CA, USA. Mathematics.
2002-2005: Consultant at Accenture on Italian and international projects for banks and telecom corporations.
1995-2001: Part-time jobs while going to college including selling.

Education:

2014: PhD Earth & Planetary Science, Univ. of California, Berkeley, CA, USA. Climate modeling.
2008: MS Environmental System Mathematical Modeling, Humboldt State Univ., Arcata, CA, USA. Ecosystem modeling.
2001: MS Physics, Univ. of Pavia, Italy. Theoretical physics - Econophysics: Interest rate modeling.
1994: Electrical Engineering Technician diploma.

Technical skills:
Programming languages: C/C++, Fortran, Java, Matlab, Ncl, Perl, Python, R, SQL and PL/SQL, and Unix scripting. SQL query optimization, worksheet, web development. Electric circuit design and safety.

Scientific publications:

D. Rosa, and W. D. Collins (2013), A case study of sub-daily simulated and observed continental convective precipitation: CMIP5 and multiscale global climate models comparison. Geophys. Res. Lett. doi:10.1002/2013GL057987.

Hsieh, W.-C., D. Rosa, and W. D. Collins (2013), Global dust simulations in the multiscale modeling framework, J. Adv. Model. Earth Syst., doi:10.1029/2012MS000150.

D. Rosa, J. F. Lamarque, W. D. Collins (2012), Global transport of passive tracers in conventional and superparameterized climate models: Evaluation of multi-scale methods, J. Adv. Model. Earth Syst., 4, M10003, doi:10.1029/2012MS000206.

F. Li, D. Rosa, W. D. Collins, and M. F. Wehner (2012), "Super-parameterization": A better way to simulate regional extreme precipitation?, J. Adv. Model. Earth Syst., 4, M04002, doi:10.1029/2011MS000106.

Rosa, D. (2008), Implementing a Dynamic Allocation Scheme for the Lund-Potsdam-Jena Global Vegetation Model (MS thesis).

Rosa, D. (2001), Diffusion processes and their application in the financial markets (MS thesis, document in Italian).